AMENDMENTS TO THE CLAIMS

Claims 1-4 (Cancelled)

Claim 5. (Previously Presented) A polishing apparatus comprising:

a turn table having a polishing surface;

a top ring for holding an object to be polished by said polishing surface;

an end point detecting mechanism operable to indicate an end point of polishing and to output a measured signal; and

a frequency measuring device, said frequency measuring device comprising

a plurality of n-nary counters, and

a plurality of gate circuits operable to receive the measured signal outputted by said end point detecting mechanism, and to supply the measured signal to an input of said plurality of n-nary counters, respectively, in a respective order at given time intervals, wherein said frequency measuring device is operable to supply a frequency measurement result of the measured signal from said plurality of n-nary counters every given time interval.

Claim 6. (Previously Presented) A polishing method for indicating an end point of polishing of an object to be polished by a turn table having a polishing surface, said method comprising:

providing a plurality of n-nary counters; and

supplying a measured signal to a respective input of said plurality of n-nary counters in a respective order at given time intervals;

wherein a frequency measurement result of the measured signal is supplied from said plurality of n-nary counters every given time interval.

Claims 7-18 (Cancelled)

Claim 19. (Previously Presented) A device for measuring a frequency of a measured signal, said device comprising:

a plurality of n-nary counters;

a plurality of gate circuits operable to supply the measured signal to an input of said plurality of n-nary counters, respectively, each of said plurality of gate circuits being operable to open in a respective order at a certain time interval;

a latch circuit operable to receive a signal from each of said plurality of n-nary counters, wherein a frequency measurement result of the measured signal is supplied from said plurality of n-nary counters.

Claim 20. (Currently Amended) A method for <u>transmitting a signal for use in a frequency</u> measuring device measuring the frequency of a measured signal, said method comprising:

supplying the-a signal from a plurality of gate circuits, each of the said plurality of gate circuits being operable to open in a respective order at a certain time interval; and

receiving the said signal from each of the said plurality of gate circuits by a latch circuit, the said latch circuit being operable to output the signal in the respective order at a certain time interval.

Claim 21. (Previously Presented) An apparatus for polishing a substrate, said apparatus comprising:

an end point detecting mechanism operable to detect an end point of polishing and to output a polishing information signal;

a frequency measuring device comprising a plurality of n-nary counters, each of said plurality of n-nary counters being operable to output a signal according to the polishing information signal, and said frequency measuring device being operable to measure the signal output by said plurality of n-nary counters.

- Claim 22. (Previously Presented) An apparatus in accordance with claim 21, wherein said frequency measuring device further comprises a plurality of gate circuits operable to receive the polishing information signal from said end point detecting mechanism and to supply the polishing information signal to said plurality of n-nary counters.
- Claim 23. (Previously Presented) An apparatus in accordance with claim 22, wherein each of said plurality of gate circuits opens in a respective order at a certain time interval.
- Claim 24. (Previously Presented) An apparatus in accordance with claim 23, wherein said frequency measuring device further comprises a latch circuit operable to receive the signal from each of said plurality of n-nary counters.
- Claim 25. (Currently Amended) A polishing method, said method comprising: providing a plurality of n-nary counters;

supplying a signal to <u>the said</u> plurality of n-nary counters to be measured by <u>the said</u> plurality of n-nary counters;

measuring a frequency of the signal measured by <u>the said</u> plurality of n-nary counters; and detecting an end point of polishing according to the frequency of the measured signal.

Claim 26. (Currently Amended) A method of polishing a substrate, said method comprising: providing a plurality of n-nary counters;

supplying a signal to <u>the said</u> plurality of n-nary counters to be measured by <u>the said</u> plurality of n-nary counters;

measuring a frequency of the signal measured by the said plurality of n-nary counters; and detecting a thickness of a layer formed on the said substrate according to the frequency of the measured signal.

Claim 27. (Cancelled)